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(54) LIFE CONTROL METHOD FOR WIRE ROPE

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(57) Abstract:

PURPOSE: To control a life of a wire rope by measuring tension of acting on the wire rope and a number of bending times under each tension, and calculating a degree of fatigue from a data, previously created, of obtaining a relation between the number of bending times of the wire rope and the degree of fatigue based on strength at new product time and residual strength.

CONSTITUTION: Tensions T_1 to T_3 acting in a wire rope and a number of bending times under each tension are measured. From a data of obtaining a relation between a number of bending times N_1 to N_3 of the wire rope and a degree of fatigue based on strength at new product time and residual strength, the degree of fatigue is calculated to control a life of the wire rope by this degree of fatigue. As a result, regardless of unevenness of the strength at new product time and change of a condition of use, of the wire rope, its life can be high accurately estimated, thus to make the wire rope usable to a limit.

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